

Title (en)  
Gas engine driving apparatus

Title (de)  
Gasangetriebenes Motorsteuerungsgerät

Title (fr)  
Appareil de commande de moteur à gas

Publication  
**EP 1437496 A2 20040714 (EN)**

Application  
**EP 04000238 A 20040108**

Priority  
JP 2003002829 A 20030109

Abstract (en)  
A gas engine driving apparatus is equipped with a gas engine (30), a rotation number detecting unit (72) for detecting the rotation number of the gas engine (30), a fuel supply pipe (32) connected to a throttle portion (36) at the downstream side thereof, a fuel adjusting valve (35) which is equipped at some midpoint in the fuel supply pipe (32) and whose valve opening degree is variable, a target opening degree setting unit (59, 60) for setting the target opening degree of the fuel adjusting valve (35), and a controller (13) for controlling the valve opening degree of the fuel adjusting valve so that the target opening degree set by the target opening degree setting unit is achieved. The controller (13) is equipped with a target opening degree correcting unit (75) for calculating a rotation number variation average value on the basis of rotation number data detected by the rotation number detecting unit (72) after the gas engine (30) is started, and correcting the target opening degree of the fuel adjusting valve (35) on the basis of the calculation result.  
The apparatus has a controller (13) e.g. microcomputer, provided with a target opening degree correcting unit for calculating a rotation number variation average value. The average value is calculated based on the rotation number data detected by a rotation number detecting unit after a gas engine (30) is started. The target opening degree of a fuel adjusting valve (35) is corrected based on the calculation result.

IPC 1-7  
**F02D 19/02**; **F02D 11/10**; **F02D 35/00**; **F02D 31/00**

IPC 8 full level  
**F02M 21/02** (2006.01); **F02B 43/00** (2006.01); **F02D 11/10** (2006.01); **F02D 19/02** (2006.01); **F02D 29/04** (2006.01); **F02D 31/00** (2006.01); **F02D 35/00** (2006.01); **F02D 41/00** (2006.01); **F25B 1/00** (2006.01); **F25B 27/00** (2006.01)

CPC (source: EP KR)  
**F02D 11/105** (2013.01 - EP); **F02D 19/023** (2013.01 - EP); **F02D 29/04** (2013.01 - EP); **F02D 31/007** (2013.01 - EP); **F02D 35/0007** (2013.01 - EP); **F02D 41/0027** (2013.01 - EP); **F25B 1/00** (2013.01 - KR); **F02M 21/0215** (2013.01 - EP); **F02M 21/0233** (2013.01 - EP); **F02M 21/0239** (2013.01 - EP); **Y02T 10/30** (2013.01 - EP)

Cited by  
CN111520244A; US9828947B2

Designated contracting state (EPC)  
DE ES FR GB IT PT

DOCDB simple family (publication)  
**EP 1437496 A2 20040714**; **EP 1437496 A3 20061011**; **EP 1437496 B1 20070620**; CN 1322233 C 20070620; CN 1517537 A 20040804; DE 602004007047 D1 20070802; DE 602004007047 T2 20080228; ES 2287590 T3 20071216; JP 2004211674 A 20040729; KR 100576662 B1 20060510; KR 20040064223 A 20040716; PT 1437496 E 20070904

DOCDB simple family (application)  
**EP 04000238 A 20040108**; CN 200310116322 A 20031119; DE 602004007047 T 20040108; ES 04000238 T 20040108; JP 2003002829 A 20030109; KR 20040001029 A 20040108; PT 04000238 T 20040108